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4/26/2004 Rebecca A. Baumann
Date Signature: Rebecca A. Baumann

PATENT

Attorney Docket No. AMK-AB0975-2C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application)	<u>PATENT APPLICATION</u>
)	
Inventor(s): Won Sun Shin et al.)	
)	Art Unit: unknown
Application No.: 10/803,333)	
)	Examiner: unknown
Filed: 3/17/2004)	
)	
Title STACKABLE SEMICONDUCTOR PACKAGE)	
HAVING SEMICONDUCTOR CHIP WITHIN)	
CENTRAL THROUGH HOLE OF SUBSTRATE)	

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on an attached Form PTO-1449 is information known to applicant(s). Any listed Foreign references are enclosed.

Please note that, in commonly-assigned co-pending application serial no. 10/785,528, claims are being pursued that are similar to, but assertedly patentably distinct from, the claims of the present application. The former application, and a preliminary amendment related thereto, are enclosed with this IDS.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP § 609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56.

- ☒ This statement qualifies under 37 C.F.R. § 1.97, subsection (b) because (check all that apply):
- ☐ (1) It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d)
-- OR --
 - ☐ (2) It is being filed within 3 months of entry of a national stage
-- OR --
 - ☒ (3) It is being filed before the mail date of the first Office Action on the merits.
-- OR --
 - ☐ (4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114
- ☐ 37 C.F.R. § 1.97(c). If this statement is being filed after the period specified in § 1.97(b), but before the mailing date of the earlier of a final office action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, then:
- ☐ a certification as specified in § 1.97(e) is provided below; **or**
 - ☐ a fee of \$180.00 as set forth in § 1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
- ☐ 37 C.F.R. § 1.97(d). If this statement is being filed after the period specified in § 1.97(c), but on or before payment of the issue fee, then:
- A. a certification as specified in § 1.97(e) is completed below; **and**
 - B. a fee of \$180.00 as set forth in § 1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
- ☒ **Fee Authorization.** The Commissioner is hereby authorized to charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0574 (Docket No. AMK-AB0975-2C).

Respectfully submitted,

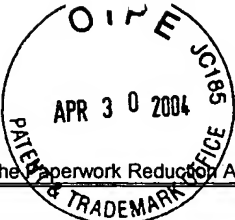
BEVER, HOFFMAN & HARMS, LLP

Dated: 4/26/04

By: James E. Parsons

James E. Parsons, Reg. No. 34,691

Telephone: (408) 451-5906
Customer No. 22888



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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/803,333		
				Filing Date	3/17/2004		
				First Named Inventor:	Won Sun Shin		
				Examiner: unknown	GROUP: unknown		
Sheet	1	of	13	Attorney Docket Number	AMK-AB0975-2C		
U.S. PATENT DOCUMENTS							
Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(f/known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	
	A001	US-3,851,221		11/1974	Beaulieu et al.		
	A002	US-4,398,235		08/1983	Lutz et al.		
	A003	US-4,530,152		07/1985	Roche et al.		
	A004	US-4,567,643		02/1986	Droguet et al.		
	A005	US-4,707,724		11/1987	Suzuki et al.		
	A006	US-4,729,061		03/1988	Brown		
	A007	US-4,730,232		03/1988	Lindberg		
	A008	US-4,756,080		07/1988	Thorp, Jr. et al.		
	A009	US-4,763,188		08/1988	Johnson		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ^{5(f/known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
	A010	JP	62-126661	06/1987			
	A011	JP	4-56262	02/1992			
	A012	JP	63-244654	10/1988			
	A013	JP	5136323	06/1993			
	A014	JP	5109975	04/1993			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER SIGNATURE:					DATE CONSIDERED:		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ² (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A015	US-4,982,265		01/1991	Watanabe et al.		
	A016	US-4,996,587		02/1991	Hinrichsmeyer et al.		
	A017	US-5,012,323		04/1991	Farnworth		
	A018	US-5,025,306		06/1991	Johnson et al.		
	A019	US-5,040,052		08/1991	McDavid		
	A020	US-5,138,438		08/1992	Masayuki et al.		
	A021	US-5,140,404		08/1992	Fogal et al.		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A022	JP	61117858	06/1986			
	A023	JP	4028260	01/1992			
	A024	JP	4116859	04/1992			
	A025	JP	4096358	03/1992			
	A026	JP	5013665	01/1993			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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				Examiner: unknown		GROUP: unknown	
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Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(f/known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A027	US-5,157,480		10/1992	McShane et al.		
	A028	US-5,165,067		11/1992	Wakefield et al.		
	A029	US-5,198,888		03/1993	Sugano et al.		
	A030	US-5,200,362		04/1993	Lin et al.		
	A031	US-5,229,647		07/1993	Gnadinger		
	A032	US-5,241,133		08/1993	Mullen, III et al.		
	A033	US-5,273,938		12/1993	Lin et al.		
	A034	US-5,291,061		03/1994	Ball		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ^{5 (f/known)}		Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A035	JP	4-368154	12/1992			
	A036	JP	54-128274	04/1979			
	A037	JP	1028856	01/1989			
	A038	JP	1099248	04/1989			
	A039	JP	60182731	09/1985			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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				Examiner: unknown		GROUP: unknown	
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U.S. PATENT DOCUMENTS							
Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(f/know)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A040	US-5,323,060		06/1994	Fogal et al.		
	A041	US-5,334,875		08/1994	Sugano et al.		
	A042	US-5,347,429		09/1994	Kohno et al.		
	A043	US-5,394,010		02/1995	Tazawa et al.		
	A044	US-5,422,435		06/1995	Takiar et al.		
	A045	US-5,426,563		06/1995	Moresco et al.		
	A046	US-5,432,729		07/1995	Carson et al.		
	A047	US-5,438,224		08/1995	Papageorge et al.		
	A048	US-5,463,253		10/1995	Waki et al.		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ^{5 (f/know)}		Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A049	JP	56062351	05/1981			
	A050	JP	3169062	07/1991			
	A051	JP	10-256470	09/1998			
	A052	JP	1071162	03/1989			
	A053	JP	5-75015	03/1993			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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	A054	US-5,473,196		12/1995	De Givry		
	A055	US-5,474,957		12/1995	Urushima		
	A056	US-5,474,958		12/1995	Djennas et al.		
	A057	US-5,491,612		02/1996	Nicewarner, Jr.		
	A058	US-5,495,394		02/1996	Kornfeld et al.		
	A059	US-5,495,398		02/1996	Takiar et al.		
	A060	US-5,502,289		03/1996	Takiar et al.		
	A061	US-5,514,907		05/1996	Moshayedi		
	A062	US-5,569,625		10/1996	Yoneda et al.		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ^{5(f/known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A063	JP	4-368167	12/1992			
	A064	JP	5-283601	10/1993			
	A065	EP	0 503 201	12/1991	A2		
	A066	JP	64-1269	01/1989			
	A067	JP	61059862	03/1986			
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	A068	US-5,581,498		12/1996	Ludwig et al.	
	A069	US-5,587,341		12/1996	Masayuki et al.	
	A070	US-5,594,275		01/1997	Kwon et al.	
	A071	US-5,604,376		02/1997	Hamburgen et al.	
	A072	US-5,614,766		03/1997	Takasu et al.	
	A073	US-5,620,928		04/1997	Lee et al.	
	A074	US-5,625,221		04/1997	Kim et al.	
	A075	US-5,637,536		06/1997	Val	
	A076	US-5,637,912		06/1997	Cockerill et al.	
	A077	US-5,646,828		07/1997	Degani et al.	
	A078	US-5,650,593		07/1997	McMillan et al.	
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A079	JP	62119952	06/1987		
	A080	JP	62142341	06/1987		
	A081	JP	63211663	09/1988		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER SIGNATURE:				DATE CONSIDERED:		

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/803,333		
				Filing Date	3/17/2004		
				First Named Inventor:	Won Sun Shin		
				Examiner: unknown	GROUP: unknown		
Sheet	7	of	13	Attorney Docket Number	AMK-AB0975-2C		
U.S. PATENT DOCUMENTS							
Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(f known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	
	A082	US-5,668,405		09/1997	Yamashita		
	A083	US-5,677,569		10/1997	Choi et al.		
	A084	US-5,682,062		10/1997	Gaul		
	A085	US-5,689,135		11/1997	Ball		
	A086	US-5,696,031		12/1997	Wark		
	A087	US-5,696,666		12/1997	Miles et al.		
	A088	US-5,715,147		02/1998	Nagano		
	A089	US-5,721,452		02/1998	Fogal et al.		
	A090	US-5,729,051		03/1998	Nakamura		
	A091	US-5,739,581		04/1998	Chillara et al.		
	A092	US-5,744,827		04/1998	Jeong et al.		
	A093	US-5,760,471		06/1998	Fujisawa et al.		
	A094	US-5,763,939		06/1998	Yamashita		
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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
		Cntry Code ³	Number ⁴ Kind Code ^{5 (f known)}				
	A095	JP	63128736	06/1988			
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				First Named Inventor:		Won Sun Shin	
				Examiner: unknown		GROUP: unknown	
Sheet	8	of	13	Attorney Docket Number		AMK-AB0975-2C	
U.S. PATENT DOCUMENTS							
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	A096	US-5,767,528		06/1998	Sumi et al.		
	A097	US-5,777,387		07/1998	Yamashita et al.		
	A098	US-5,783,870		07/1998	Mostafazadeh et al.		
	A099	US-5,786,239		07/1998	Ohsawa et al.		
	A100	US-5,793,108		08/1998	Nakanishi et al.		
	A101	US-5,798,014		08/1998	Weber		
	A102	US-5,801,439		09/1998	Fujisawa et al.		
	A103	US-5,815,372		09/1998	Gallas		
	A104	US-5,835,355		11/1998	Dordi		
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
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				First Named Inventor:		Won Sun Shin		
				Examiner: unknown		GROUP: unknown		
Sheet	9	of	13	Attorney Docket Number		AMK-AB0975-2C		
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	A108	US-5,866,949		02/1999	Schueller			
	A109	US-5,872,025		02/1999	Cronin et al.			
	A110	US-5,883,426		03/1999	Tokuno et al.			
	A111	US-5,885,849		03/1999	DiStefano et al.			
	A112	US-5,886,412		03/1999	Fogal et al.			
	A113	US-5,894,108		04/1999	Mostafazadeh et al.			
	A114	US-5,903,052		05/1999	Chen et al.			
	A115	US-5,917,242		06/1999	Ball			
	A116	US-5,952,611		09/1999	Eng et al.			
	A117	US-5,973,403		10/1999	Wark			
	A118	US-5,977,640		11/1999	Bertin et al.			
	A119	US-5,986,209		11/1999	Tandy			
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)			Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
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				Examiner: unknown		GROUP: unknown	
Sheet	10	of	13	Attorney Docket Number		AMK-AB0975-2C	
U.S. PATENT DOCUMENTS							
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	A120	US-6,001,671		12/1999	Fjelstad		
	A121	US-6,005,778		12/1999	Spielberger et al.		
	A122	US-6,013,948		01/2000	Akram et al.		
	A123	US-Re. 36,613		03/2000	Ball		
	A124	US-6,034,423		03/2000	Mostafazadeh et al.		
	A125	US-6,034,427		03/2000	Lan et al.		
	A126	US-6,051,886		04/2000	Fogal et al.		
	A127	US-6,057,598		05/2000	Payne et al.		
	A128	US-6,060,778		05/2000	Jeong et al.		
	A129	US-6,072,233		06/2000	Corisis et al.		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
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				Filing Date		3/17/2004	
				First Named Inventor:		Won Sun Shin	
				Examiner: unknown		GROUP: unknown	
Sheet	11	of	13	Attorney Docket Number		AMK-AB0975-2C	
U.S. PATENT DOCUMENTS							
Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(f/know)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A130	US-6,072,243		06/2000	Nakanishi		
	A131	US-6,080,264		06/2000	Ball		
	A132	US-6,093,970		07/2000	Ohsawa et al.		
	A133	US-6,097,089		08/2000	Gaku et al.		
	A134	US-6,107,689		08/2000	Kozono		
	A135	US-6,127,833		10/2000	Wu et al.		
	A136	US-6,133,637		10/2000	Hikita et al.		
	A137	US-6,160,705		12/2000	Stearns et al.		
	A138	US-6,172,419	B1	01/2001	Kinsman		
	A139	US-6,180,696	B1	01/2001	Wong et al.		
	A140	US-6,180,881	B1	01/2001	Isaak		
	A141	US-6,184,463	B1	02/2001	Panchou et al.		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ^{5 (f/know)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
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Sheet	12	of	13	Attorney Docket Number		AMK-AB0975-2C	
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	A142	US-6,214,641	B1	04/2001	Akram		
	A143	US-6,228,676	B1	05/2001	Glenn et al.		
	A144	US-6,235,554	B1	05/2001	Akram et al.		
	A145	US-6,313,522	B1	11/2001	Akram et al.		
	A146	US-6,326,696	B1	12/2001	Horton et al.		
	A147	US-6,395,578	B1	05/2002	Shin et al.		
	A148	US-6,396,143	B1	05/2002	Kimbara et al.		
	A149	US-6,399,418	B1	06/2002	Glenn et al.		
	A150	US-6,404,046	B1	06/2002	Glenn et al.		
	A151	US-6,448,506	B1	09/2002	Glenn et al.		
	A152	US-6,452,278	B1	09/2002	DiCaprio et al.		
FOREIGN PATENT DOCUMENTS							
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number		10/803,333	
				Filing Date		3/17/2004	
				First Named Inventor:		Won Sun Shin	
				Examiner: unknown		GROUP: unknown	
Sheet	13	of	13	Attorney Docket Number		AMK-AB0975-2C	
U.S. PATENT DOCUMENTS							
Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(f/known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A153	US-6,459,148	B1	10/2002	Chun-Jen et al.		
	A154	US-6,486,537	B1	11/2002	Liebhard		
	A155	US-6,501,184	B1	12/2002	Shin et al.		
	A156	US-6,515,356	B1	02/2003	Shin et al.		
	A157	US-6,564,454	B1	05/2003	Glenn et al.		
	A158	US-6,577,013	B1	06/2003	Glenn et al.		
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u> Cntry Code ³ Number ⁴ Kind Code ^{5(f/known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Figures Appear
	A159	KR	1999-0065599	08/1999			
	A160	KR	1999-0080278	11/1999			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
U.S. Patent Application serial no. 10/785,528 and Preliminary Amendment thereto dated 02/24/2004.							
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